

## HER3/ERBB3 Protein, Human, Recombinant (hFc)

### General Information

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| Synonyms:             | HER3;c-erbB-3;p180-ErbB3;ErbB-3;p85-sErbB3;MDA-BF-1;p45-sErbB3;LCCS2;c-erbB3;erbB3-S;erb-b2 receptor tyrosine kinase 3;EEBB3 |
| Protein Construction: | Ser20-Thr643   |
| Species:              | Human  |
| Expression Host:      | HEK293 Cells   |
| Accession:            | P21860   |
| Molecular Weight:     | 95.4 kDa (predicted); 110-120 kDa (reducing condition, due to glycosylation)   |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Immobilized Human Her3, hFc Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC50 of 0.33 µg/ml determined by ELISA (QC Test).<br>Immobilized Human Her3, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-Her3 Antibody, hFc Tag with the EC50 of 10.7 ng/ml determined by ELISA. |
| Purity:              | > 95% as determined by Bis-Tris PAGE;<br>> 95% as determined by HPLC  |
| Endotoxin:           | < 1.0 EU/µg of the protein as determined by the LAL method.   |
| Formulation:         | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Her3, also called ErbB3, is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. Her3 is expressed in keratinocytes, melanocytes, skeletal muscle cells, embryonic myoblasts and Schwann cells. Monomeric Her3 serves as a low affinity receptor for the heregulins (HRG).

### Reference

Kraus M.H., et al., (1989), Isolation and characterization of ERBB3, a third member of the ERBB/epidermal growth factor receptor family: evidence for overexpression in a subset of human mammary tumors. Proc. Natl. Acad. Sci. U.S.A. 86:9193-9197.

Plowman G.D., et al., (1990), Molecular cloning and expression of an additional epidermal growth factor receptor-related gene. Proc. Natl. Acad. Sci. U.S.A. 87:4905-4909.

Katoh M., et al., (1993), c-erbB3 gene encodes secreted as well as transmembrane receptor tyrosine kinase. Biochem. Biophys. Res. Commun. 192:1189-1197.

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